

09/876,830

09567863

FILE 'HOME' ENTERED AT 11:15:18 ON 21 JUL 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:15:28 ON 21 JUL 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 JUL 2003 HIGHEST RN 551897-78-0

DICTIONARY FILE UPDATES: 20 JUL 2003 HIGHEST RN 551897-78-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

*** YOU HAVE NEW MAIL ***

=>

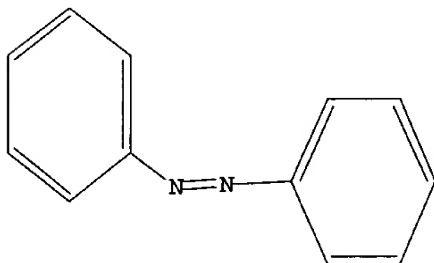
Uploading 098768302.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 11:16:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 229340 TO ITERATE

100.0% PROCESSED 229340 ITERATIONS

171532 ANSWERS

09567863

SEARCH TIME: 00.00.04

L2 171532 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.55

148.76

FILE 'CAPLUS' ENTERED AT 11:16:22 ON 21 JUL 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 21 Jul 2003 VOL 139 ISS 4

FILE LAST UPDATED: 20 Jul 2003 (20030720/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2

L3 76260 L2

=> s l3 and phosphoramidite

2159 PHOSPHORAMIDITE

L4 14 L3 AND PHOSPHORAMIDITE

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 14 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 bib abs 1-14

L5 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:91101 CAPLUS

DN 138:339694

TI Synthesis of a benzotriazole azo dye **phosphoramidite** for labelling of oligonucleotides

AU Brown, Rachel; Smith, W. Ewen; Graham, Duncan

CS Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, G1 1XL, UK

SO Tetrahedron Letters (2003), 44(7), 1339-1342

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

AB The synthesis of a benzotriazole azo dye **phosphoramidite** and its subsequent use in the solid-phase synthesis of oligonucleotides is reported. The azo dye is shown as a surface-enhanced resonance Raman label for oligonucleotides that is capable of immobilization of the

09567863

of uridine for reversible regulation of oligonucleotide duplex and triplex structure stability

IN Komiyama, Makoto; Asanuma, Hiroyuki; Yoshida, Takayuki

PA Japan

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001021637	A1	20010329	WO 2000-JP6415	20000920
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI JP 1999-304479 A 19990920

AB Oligonucleotides having an org. group undergoing structural isomerization depending on light irradiation, and reactants for their synthesis, **phosphoramidite** monomers, are disclosed. The melting temp. of a duplex or triplex structure formed by this oligonucleotide and another oligonucleotide complementary thereto reversibly changes depending on light irradiation. Regulation of DNA amplification and gene expression using the oligonucleotides of this invention is claimed. Photo-responsive oligonucleotides carrying azobenzene at the 2'-position of uridine are described. Azobenzene residue has been tethered to the 2'-position of uridine in oligonucleotides. On photo-irradiation, the melting temps. between the modified oligonucleotides and their complementary DNA were significantly changed by the cis-trans isomerization of the azobenzene. Meta-Aminoazobenzene has been introduced in the side chain of oligonucleotides as a photo-responsive mol. Compared with the para-aminoazobenzene which was previously used, the thermal cis-to-trans isomerization was much slower: the half-lives of the cis-isomers of m- and p-aminoazobenzene were 13.2 h and 20 min at 50.degree.C, resp. By using the present oligonucleotides, duplex formation and dissociation was efficiently regulated on photo-irradiation without being disturbed by the thermal isomerization.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:909995 CAPLUS

DN 136:32671

TI Photo-responsive oligonucleotides carrying azobenzene for single nucleotide polymorphism (SNP) detection

IN Komiyama, Makoto; Asanuma, Hiroyuki

PA Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001346579	A2	20011218	JP 2000-165441	20000602
PRAI	JP 2000-165441		20000602		

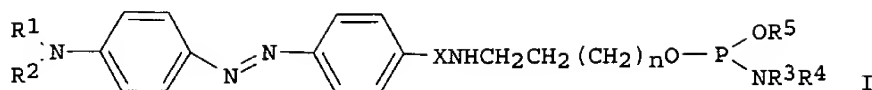
AB Oligonucleotides having an org. group undergoing structural isomerization

upon light irradiation, and reactants for their synthesis, **phosphoramidite** monomers, and use of those oligonucleotides as immobilized DNA chips for SNP detection, are disclosed. The photo-responsive moiety may be linked to the 5', 3', or phosphodiester forming phosphate group, either directly or via C1-C10 alkyl linker. The melting temp. of a duplex structure formed by hybridization of this oligonucleotide and another oligonucleotide complementary thereto reversibly changes depending on light irradiation. Photo-responsive oligonucleotides carrying azobenzene or its derivs. at the 2'-position of uridine are described. On photo-irradiation, the melting temps. between the modified oligonucleotides and their complementary DNA were significantly changed by the cis-trans isomerization of the azobenzene. 4-Aminoazobenzene was also introduced in the side chain of oligonucleotides as a photo-responsive mol.

L5 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2001:490069 CAPLUS
 DN 135:242452
 TI Versatile Strategy for Oligonucleotide Derivatization. Introduction of Lanthanide(III) Chelates to Oligonucleotides
 AU Hovinen, Jari; Hakala, Harri
 CS PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101, Finland
 SO Organic Letters (2001), 3(16), 2473-2476
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 135:242452
 AB Novel nucleosidic **phosphoramidite** blocks were synthesized by a Mitsunobu reaction between 2'-deoxy-5'-O-(4,4'-dimethoxytrityl)uridine and a primary alc. contg. a conjugate group in its structure (a protected functional group, an org. dye, or a precursor of a lanthanide(III) chelate) followed by phosphitylation. They were used in machine-assisted DNA synthesis in the std. manner. A slightly modified deprotection procedure was used for the prepn. of oligonucleotide conjugates tethered to lanthanide(III) chelates. For the latter application one non-nucleosidic block was also synthesized.
 RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2000:623764 CAPLUS
 DN 133:177415
 TI Synthesis of aminophenylazobenzene labeled phosphoramidites as synthons for the preparation of oligodeoxyribonucleotides
 IN Pitner, J. Bruce; Linn, C. Preston
 PA Becton, Dickinson and Company, USA
 SO U.S., 15 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6114518	A	20000905	US 1999-409471	19990930
PRAI	US 1999-409471		19990930		
OS	MARPAT 133:177415				
GI					



AB The present invention provides labeled phosphoramidites I wherein, X is SO₂, CO, CS; R₁ and R₂ are independently alkyl or can jointly form with N a heterocycle; R₃ and R₄ are independently alkyl, isopropyl; R₅ is Me, CH₂CH₂CN; n is 1-10, for the prepn. of labeled oligonucleotides. Even more particularly, the present invention provides compns. and methods for labeling the 5' end of oligonucleotides during synthesis of the oligonucleotides. Thus, 4-dimethylaminophenylazo-benzenesulfonyl **phosphoramidite** was prepd. via coupling of 4-dimethylaminophenylazo-benzenesulfonyl chloride with 6-amino-1-hexanol in 80% yield as synthon of oligodeoxyribonucleotides.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:801122 CAPLUS
DN 132:237313
TI Synthesis of 5- and 6-Hydroxymethylfluorescein Phosphoramidites
AU Adamczyk, Maciej; Chan, Clifford M.; Fino, James R.; Mattingly, Phillip G.
CS Department of Chemistry (09NM), Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064-6016, USA
SO Journal of Organic Chemistry (2000), 65(2), 596-601
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB 5- And 6-Hydroxymethylfluorescein oligodeoxyribonucleotide **phosphoramidite** duplexes were prepd.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:354445 CAPLUS
DN 131:29566
TI Devices and methods for detecting target molecules in biological samples
IN Muir, Andrew R.; Boles, Truett C.; Adams, Christopher P.
PA Mosaic Technologies, USA
SO PCT Int. Appl., 124 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9926724	A2	19990603	WO 1998-US24918	19981125
WO 9926724	A3	19990902		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2311501	AA	19990603	CA 1998-2311501	19981125
AU 9915975	A1	19990615	AU 1999-15975	19981125

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AU 753191 B2 20021010
EP 1034040 A2 20000913 EP 1998-960365 19981125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

US 6251660 B1 20010626 US 1998-200126 19981125
PRAI US 1997-66508P P 19971125
WO 1998-US24918 W 19981125

AB Devices and methods for detecting the presence, or absence of the presence, of at least one target mol. employing a receptacle housing a reaction chamber comprised of at least one compartment contg. suitable reagents for the detection of the target mol. are disclosed. The device can be used in particular for screening donated blood or other biol. fluids for the presence of contaminants. Preferably, the device comprises two or more breakable compartments sepd. by breakable barriers, and is assocd. with a collection system such as a blood bag. Probes and assays for detection of eubacterial contamination in platelet conc. are described.

L5 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:514901 CAPLUS

DN 131:297272

TI Efficient automated synthesis of molecular beacons

AU Mullah, Bashar; Livak, Ken

CS PE Applied Biosystems, Foster City, CA, 94404, USA

SO Nucleosides & Nucleotides (1999), 18(6 & 7), 1311-1312

CODEN: NUNUD5; ISSN: 0732-8311

PB Marcel Dekker, Inc.

DT Journal

LA English

AB Automated synthesis of mol. beacons using 4-(4-dimethylamino phenylazo) benzoic acid (dabcyl) support and **phosphoramidite** is described.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:757855 CAPLUS

DN 130:95774

TI Photo-responsive oligonucleotides carrying azobenzene in the side-chains

AU Asanuma, Hiroyuki; Ito, Takanori; Komiyama, Makoto

CS Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, Tokyo, 113-8656, Japan

SO Tetrahedron Letters (1998), 39(49), 9015-9018

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

AB The title oligonucleotides were prepd. by using a new **phosphoramidite** monomer. The cis-trans isomers with respect to the stereochem. of the azobenzene residue, obtained on photo-irradn., were completely resolved by reversed-phase HPLC. The physicochem. properties of these oligonucleotides were significantly changed by the photo-induced isomerization.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:78992 CAPLUS

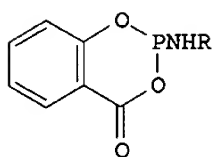
DN 124:290116

TI Synthesis of a new photoisomerizable linker for connecting two oligonucleotide segments

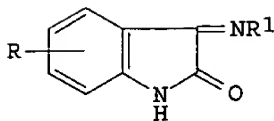
AU Yamana, Kazushige; Yoshikawa, Akira; Nakano, Hidehiko

CS Dep. Appl. Chem., Himeji Inst. Technol., Hyoto, 671-22, Japan

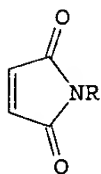
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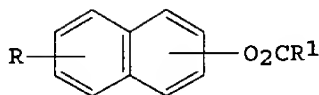
I



II



III



IV

AB RP(O)(CH₂CH₂Cl)OCH₂CH₂Cl (R = substituted anilino, benzotriazolyl, benzimidazolyl, piperidyl, phthalimido, indolyl), I (R = Ph, p-tolyl, p-EtO₂CC₆H₄, o-O₂NC₆H₄, o-MeOC₆H₄), RC₆H₄NR₂CH₂CH(OH)R₁ (R = H, o-, m-, p-Me, o-, m-, p-MeO, o-, m-, p-Cl, m-CF₃, R₁ = H, Me, MeOCH₂, R₂ = COCHCl₂, substituted phenylcarbamoyl, acetyl, PhSO₂), II (R = H, Me, Br, R₁ = 3,4-Cl₂C₆H₃, 3-F₃CC₆H₄, 4-ClC₆H₄, 4-MeOC₆H₄, 3-O₂NC₆H₄), RNHCOCH:CHCO₂H (R = substituted phenyl, 2-thiazolyl, 2-pyridyl), III (R = substituted phenyl), IV (R = H, NO₂, Br, R₁ = alkenyl, 2-furylvinyl, vinyl, 1-propenyl, chloromethyl, isopropenyl), Et₂NCS₂R (R = alkenyl, alkyl, Ph, phenylcarbamoylmethyl), and RN:NR₁ (R = 2,6-diamino-3-pyridyl, 2,4-diaminophenyl, histidyl, R₁ = pyridyl, quinolyl, substituted phenyl) (156 compds.), useful in control of cotton plant diseases (no data), were prepd. by previously published syntheses.

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oligonucleotide on metal surfaces such as silver nanoparticles.
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

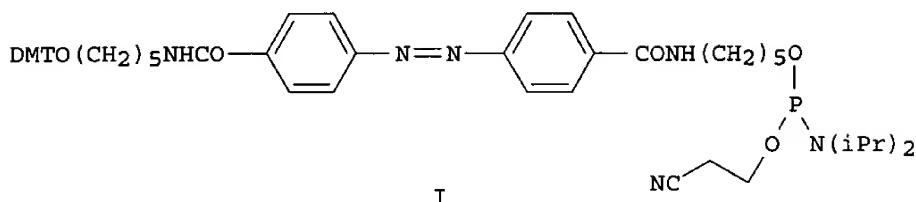
L5 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:435306 CAPLUS
DN 135:41772
TI Fluorophore-oligonucleotide-4-(phenyldiazenyl)phenylamine quencher
conjugates for use in hybridization assays
IN Reed, Michael W.; Lukhtanov, Eugeny Alexander; Gall, Alexander A.; Dempcy,
Robert O.
PA Epoch Biosciences, Inc., USA
SO PCT Int. Appl., 122 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001042505	A2	20010614	WO 2000-US33333	20001208
	WO 2001042505	A3	20020124		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP	1235938	A2	20020904	EP 2000-984069	20001208
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP	2003516163	T2	20030513	JP 2001-544376	20001208
US	2002155484	A1	20021024	US 2002-93769	20020307
PRAI	US 1999-457616	A	19991208		
	WO 2000-US33333	W	20001208		
OS	MARPAT 135:41772				
AB	Oligonucleotide-fluorophore-quencher conjugates wherein the fluorophore moiety has emission wavelengths in the range of about (300) to about (800) nm, and or where the quencher includes a substituted 4-(phenyldiazenyl)phenylamine structure provide improved signal to noise ratios and other advantageous characteristics in hybridization and related assays. The oligonucleotide-fluorophore-quencher conjugates can be synthesized by utilizing novel phosphoramidite reagents that incorporate the quencher moiety based on the substituted 4-(phenyldiazenyl)phenylamine structure, and or novel phosphoramidite reagents that incorporate a fluorophore moiety based on the substituted coumarin, substituted 7-hydroxy-3H-phenoxazin-3-one, or substituted 5,10-dihydro-10-[phenyl]pyrido[2,3-d;6,5-d']dipyrimidine-2,4,6,8-(1H,3H,7H,9H,10H)-tetrone structure. Oligonucleotide-fluorophore-quencher-minor groove binder conjugates including a pyrrolo[4,5-e]indolin-7-yl-carbonyl{pyrrolo[4,5-e]indolin-7-yl}carbonyl pyrrolo[,5-e]indoline-7-carboxylate (DPI3) moiety as the minor groove binder and the substituted 4-(phenyldiazenyl)phenylamine moiety as the quencher, were synthesized and have substantially improved hybridization and signal to noise ratio properties.				

L5 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:228906 CAPLUS
DN 134:252588
TI Photo-responsive oligonucleotides carrying azobenzene at the 2'-position

09567863

SO Tetrahedron Letters (1996), 37(5), 637-40
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
GI



AB Synthesis of a photoisomerizable linker contg. an azobenzene unit for connecting oligodeoxyribonucleotide segments has been described. 4,4'-Azobenzene dicarbonyl chloride was converted to the fully protected diol by treatment with the O-silyl protected aminopentanol. Partial deprotection of the silyl group afforded the monoprotected diol, which was protected by a dimethoxytrityl group. Then the remaining silyl protecting group was removed to afford the alc. The hydroxyl function was converted to the **phosphoramidite I**. The **phosphoramidite I** can be used for joining two oligodeoxyribonucleotides via the 5'-terminal hydroxyl group of one oligomer and the 3'-terminal oxygen of the other.

L5 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:137642 CAPLUS
DN 123:112590
TI Novel non-nucleosidic **phosphoramidite** building blocks for versatile functionalization of oligonucleotides at primary hydroxy groups
AU Hovinen, Jari; Guzaev, Andrei; Azhayev, Alex; Loennberg, Harri
CS Dep. Chem., Univ. Turku, Turku, FIN-10500, Finland
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1994), (19), 2745-9
CODEN: JCPRB4; ISSN: 0300-922X

DT Journal
LA English

AB Synthesis of **phosphoramidite** building blocks NCCH₂CH₂OP[N(CHMe₂)₂]OCH₂CO₂R [R = CH₂CH₂Cl, CH₂CF₃] that enable attachment of various tether groups to oligonucleotides at their 5'-terminus (or 1'-OH of 3'-deoxysiconucleoside units) is described. Introduction of these linkers during oligonucleotide assembly on a solid support, and their subsequent derivatization upon deprotection, afforded amino-, and carboxy-, and sulfanylalkyl-tethered oligonucleotides.

L5 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:441916 CAPLUS
DN 117:41916
TI Detecting microorganisms associated with vaginal infections by nucleic acid hybridization
IN Sheiness, Diana K.; Adams, Trevor H.
PA Microprobe Corp., USA
SO PCT Int. Appl., 62 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

PATENT NO.

KIND DATE

APPLICATION NO. DATE

PI	WO 9207096	A1	19920430	WO 1991-US7763	19911021
	W: JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	EP 554355	A1	19930811	EP 1991-919934	19911021
	EP 554355	B1	19980107		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06502305	T2	19940317	JP 1991-518485	19911021
	AT 161893	E	19980115	AT 1991-919934	19911021
	ES 2112868	T3	19980416	ES 1991-919934	19911021
	US 5700636	A	19971223	US 1993-133598	19931008
	US 5654418	A	19970805	US 1995-460344	19950602
	US 5776694	A	19980707	US 1997-886999	19970702

PRAI	US 1990-600334		19901019		
	WO 1991-US7763		19911021		
	US 1992-896094		19920529		
	US 1993-133598		19931008		
	US 1995-458319		19950602		

AB Multiple microorganisms assocd. with vaginal infections may be detected simultaneously in a biol. sample by after lysing the microorganisms with a lysis soln. using a hybridization soln. and a dipstick bearing .gtoreq.3 capture oligonucleotide-coated beads capable of specifically hybridizing with *Gardnerella vaginalis*, *Candida*, and *Trichomonas vaginalis*. Hybridization is then detected using a soln. contg. .gtoreq.2 signal oligonucleotides which hybridize with prokaryotic and eukaryotic nucleic acids, resp. Oligonucleotides complementary to conserved or hypervariable regions of the 16S rRNA of *G. vaginalis*, *Trichomonas vaginalis*, or *Candida* were synthesized by **phosphoramidite** chem., derivatized with cyanuric chloride, and coupled to poly(ethylenimine)-coated white nylon beads. A proteinase K lysate of *G. vaginalis* was hybridized with a biotinylated 24-mer oligonucleotide signal probe and then with *G. vaginalis*-specific capture probe immobilized on beads as above. The beads were then coupled to a streptavidin-peroxidase conjugate, incubated with 4-methoxy-1-naphthol substrate and H₂O₂, and examd. fluorometrically with excitation at 350 nm and emission at 456 nm.

L5 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1977:16610 CAPLUS

DN 86:16610

TI Some results of studies on the synthesis of and search for new chemical preparations to control cotton plant diseases

AU Maksudov, N. Kh.

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